The Honorable Ricardo S. Martinez 1 2 3 4 5 6 UNITED STATES DISTRICT COURT 7 WESTERN DISTRICT OF WASHINGTON AT SEATTLE 8 9 Estate of MYLO HARVEY, and DIANE HENRY, as the personal representative of 10 NO. CV05-1170RSM the Estate. 11 PLAINTIFFS' DISCLOSURE OF EXPERT Plaintiffs, WITNESS RICHARD CUMMINS, M.D. 12 VS. 13 KEITH JONES, BENJAMIN KALICH, CLYDE TURNER, JOHN DOES ONE 14 THROUGH TEN, and CITY OF EVERETT, 15 Defendants. 16 17 Pursuant to FRCP 26(a)(2), plaintiffs hereby give notice that they intend to call the 18 following expert witness at trial who may be used at trial to present evidence under Rule 702, 19 703 or 705 of the Federal Rules of Evidence: RICHARD CUMMINS, M.D. 20 A copy of Dr. Cummins's report, dated May 2, 2006 is attached to this disclosure as 21 Exhibit A.

PLAINTIFFS' DISCLOSURE OF EXPERT WITNESS RICHARD CUMMINS, M.D. (CV05-1170RSM) – 1

CARNEY BADLEY SPELLMAN LAW OFFICES A PROFESSIONAL SERVICE CORPORATION 701 FIFTH AVENUE, #3600 SEATTLE, WA 98104-7010 FAX (206) 467-8215 TEL (206) 622-8020

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A copy of Dr. Cummins's bibliography and curriculum vitae is attached to this disclosure as Exhibit B. A list of Dr. Cummins's publications is listed on page 14 of his bibliography and curriculum vitae.

A list of all cases in which Dr. Cummins has testified as an expert at trial within the last four years is attached as Exhibit C.

A copy of Dr. Cummins's fee schedule is attached to this disclosure as Exhibit D.

Plaintiffs anticipate that Dr. Cummins will give the expert opinions as provided in his report.

These opinions are based on the documents that have been reviewed by Dr. Cummins as indicated in his report. He may form additional opinions after reviewing further materials obtained by plaintiffs in discovery. If he develops further opinions, plaintiffs will supplement this disclosure.

Dr. Cummins will receive compensation in accordance with the provisions of his fee schedule.

DATED this 3 day of May, 2006.

CARNEY BADLEY SPELLMAN, P.S.

Ву

James E. Lobsenz, WSBA #8787 Cindy G. Flynn, WSBA #25713

Attorneys for Plaintiffs

Carney Badley Spellman, P.S. 701 Fifth Avenue, Suite 3600 Seattle, WA 98104-7010

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PLAINTIFFS' DISCLOSURE OF EXPERT WITNESS RICHARD CUMMINS, M.D. (CV05-1170RSM) – 2

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E-mail: Lobsenz@carneylaw.com E-mail: Flynn@carneylaw.com

CERTIFICATE OF SERVICE

I hereby certify that on 5 3 06, I electronically filed the foregoing with the Clerk of the Court using the CM/ECF system which will send notification of such filing to Robert Christie at bob@christielawgroup.com.

PLAINTIFFS' DISCLOSURE OF EXPERT WITNESS RICHARD CUMMINS, M.D. (CV05-1170RSM) – 3

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Richard O. Cummins, MD, MPH, MSc

1606 39th Avenue Seattle, Washington 98122 Voice: 206/324-7825

oice: 200/324-/023 Fax: 206/325-9202

eMail: docroc@u.washington.edu

May 2, 2006

RE: Milo Harvey (deceased) v. City of Everett Police Department

Plaintiff attorneys asked me to review the records, statements, reports and depositions surrounding the events and emergency medical care of Milo Harvey on November 11, 2002. Following this review, plaintiff attorneys requested that I render an opinion in regards to the emergency actions of the Everett Police Department, the Emergency Medical Services responders, and the professional staff at the Providence Medical Center Emergency Department; and the probable effects that care on Mr. Harvey's ultimate death.

For my review I have had available the following documents:

Transcript of SnoPac 9-1-1 Tape; Severett Police Incident Report, Case No. 02-23724; Evidence Report; Scene photos following the incident; 6. Written statement by Officer Keith Jones dated November 18, 2002; 7. Supplemental written statement by Officer Keith Jones dated November 21, 2002; 8. Written statement by Officer Benjamin Kalich dated November 18, 2002; 9. Supplemental written statement by Officer Benjamin Kalich, 10. Written report of Officer Jamie French dated November 12, 2002; 11. Follow up report written by Officer French dated November 17, 2002; 12. Written statement by Officer Interest and November 18, 2002; 13. Supplemental written statement by Officer Clyde Turner dated November 18, 2002; 14. Follow up report by Officer J. DeRouse dated November 11, 2002; 15. Follow up report prepared by Officer U. Hegge dated November 11, 2002; 16. Follow up report prepared by Officer P. Hegge dated November 11, 2002; 17. Follow up report prepared by Detective Jimmy Phillips; 18. Written report by Sergeant R. Johns dated November 17, 2002; 20. Written report by Sergeant Britton dated November 17, 2002; 21. Written report by Detective Gary Fortin dated November 13, 2002; 22. Written statement by Leremy Thompson dated November 11, 2002; 23. Written statement by Sukhjivan Takhar dated November 11, 2002; 24. Written statement by Sukhjivan Takhar dated November 11, 2002; 25. Written statement of Tina Richman dated November 11, 2002; 26. Written statement of Tina Richman dated November 11, 2002; 27. Written statement of Honey Nightingale dated January 14, 2003; 28. Written statement of Honey Nightingale dated January 14, 2003; 28. Written statement of Honey Nightingale dated January 14, 2003; 28. Written statement of Honey Nightingale dated January 14, 2003; 28. Written statement of Honey Nightingale dated January 14, 2003; 28. Written statement of Honey Nightingale dated January 14, 2003; 28. Written Statement of Honey Nightingale dated January 14, 2003;		D D 00 00704	
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29. Written statement of Peter McFall dated November 19, 2002;		Written statement of Peter McFall dated November 19, 2002;	

	10 2002			
30.	Written statement of Matthew Park dated November 19, 2002;			
31.	Written statement of David Moses dated November 19, 2002;			
32.	Written statement of Charles Hallas, III dated November 19, 2002;			
33.	Written statement of Richard Hanson dated November 19, 2002;			
34.	Written statement of Paul Gagnon dated November 19, 2002;			
35.	Written statement of Julie Connell dated November 11, 2002;			
36.	Written statement of Justin Connell dated November 11, 2002;			
37.	Written statement of Carin Connell dated November 11, 2002;			
38.	Written statement of Eric Coston dated November 19, 2002;			
39.	Written statement of Emily Amos dated November 11, 2002;			
40.	Affidavit of Emily Amos dated January 3, 2003;			
41.	Written statement of William Armstrong dated November 19, 2002;			
42.	Written statement of Daniel McLeod dated November 11, 2002;			
43.	WSP Crime Laboratory Report; Washington State Toxicology reports			
44.	Everett Fire Department medical records;			
45.	The state Madical Contra medical seconds:			
46.	Snohomish Co Medical Examiner Autopsy Report dated February 11, 2003 with neuropathological report;			
47.	Autopsy Photos;			
48.	Certificate of Death for Mylo L. Harvey;			
49.	DVD from the surveillance video showing Mylo Harvey in the Tesoro's gas station			
50.	Deposition transcript of Keith Jones;			
51.	Deposition transcript of Clyde Turner including DVD;			
52.	Denosition transcript of Matthew R. Park;			
53.	Dr. Werner Spitz's Opinion dated March 13, 2006;			
54.	Declaration of Emily Amos;			
55.	Declaration of Christy Thompson; and			
56.	Declaration of Jeremy Thompson.			

REVIEW APPROACH

After familiarization with the case, and based on the above documents I attempted to determine the individual events and interval timing that comprised the following three timelines:

- 1. Harvey Timeline: the timeline of Milo Harvey, starting when he first provoked calls to 911
- 2. Everett PD timeline: the timeline of the Everett Police Department, starting when they were alerted to Mr. Harvey's actions and behavior
- 3. EMS Timeline: the timeline of the responders of the Emergency Medical Services system, starting when the 911 operator first dispatched a response.

Harvey Timeline. For Mr. Harvey the following events were critical:

- 1. His first physical contact with the officers of the EPD (7:24 pm)
- 2. Various actions taken by the officers up until the final "takedown" such as the use of pepper spray, blows from the police baton, holds and restrictive actions;
- 3. The "takedown" itself, that is the point at which he is finally handcuffed and hobbled and restricted in his movements.
- 4. When he stops moving and then appears unconscious, stops breathing, and becomes pulseless (7:34 + 2 pm?)

- 5. When the EPD officers note that he is unconscious, not breathing, and pulseless (7:36
- 6. When the various BLS and ACLS interventions occur (7:40 pm to 7:51 pm)
- 7. Restoration of spontaneous heartbeat (7:51 pm)

Everett PD Timeline: for the Everett Police Officers, the following events were critical:

- 1. they are dispatched to Milo Harvey's location (7:19 pm)
- 2 they have Milo Harvey in sight and begin to engage him (7:21 pm)
- 3. they make their first physical contact with him (7:24 pm)
- 4. they take various actions to subdue Milo Harvey, including, but not limited to: verbal commands; pepper spray; body blocks; hand strikes; wrist and arm locks; martial art takedown moves; tripping; kicking; pain-based pressure compliance maneuvers; blunt trauma using police batons to the legs, body and head; restrictive body presses by the police on Mr. Harevey in both supine and prone positions; head and neck "locks"; head and neck hyperflexion against an air-tight barrier (police body armor); hand-cuffing and ankle-cuffing; oral airway blockage to prevent spitting;
- 5. recognition of the moment of unconsciousness, cessation of breathing and lack of a pulse (7:34 + 2? pm);
- 6. alerting of the EMS personnel that Mr. Harvey had become unconscious, unresponsive, had stopped breathing and had no pulse (7:36 pm)
- 7. transfer of Mr. Harvey's care to the EMS personnel in a condition that allows initiation of resuscitation protocols (in the EMS vehicles, with hand- and ankle-cuffs removed) (7:40 pm)

EMS Timeline: for the EMS personnel, the following events were critical:

- 1. Arrival at the scene (7:30 pm = arrival of first unit)
- 2. Arrival at Mr. Harvey's side (7:37 pm)
- 3. Recognition that Mr. Harvey was no longer responsive, not breathing and without a pulse (7:37 pm?)
- 4. Initiation of CPR actions (7:40 pm)
- 5. Identification of the rhythm of arrest (7:47 pm = asystole)
- 6. Performance of actions and interventions of ACLS protocols (7:47 pm = 1^{st} ACLS drugs)
- 7. Initiation of positive pressure ventilation (endotracheal intubation) (7:48 pm)
- 8. Restoration of spontaneous heartbeat (7:51 pm)
- 9. Restoration of spontaneous respirations (he never regains spontaneous respirations)
- 10. Transfer of care to the Emergency Department personnel at the Providence Hospital (8:00 pm = arrival in ED

OBSERVATIONS AND OPINIONS

To the best of my knowledge my review and my preparation of the above timelines support the following observations and opinions, which I state with a reasonable degree of medical certainty, on a more probable than not basis:

- 1. Harvey Milo experiences more than 10 minutes of extreme, agitated exertion in his running struggle with the police. His ability to repeatedly escape from the police, and to resist all attempts to subdue him, required that he function at a maximum level of human exertion. At the moment when he could no longer breath (see below) and subsequently experienced cardiac arrest, Mr. Harvey would have had an extremely high blood pressure and extremely rapid heart rate. The need of his brain for oxygenated blood would have been many times normal. The tremendous amount of muscle activity would have produced a large amount of lactic acid that needed rapid removal by an active cardiac circulation.
- 2. The police delivered multiple doses of pepper spray, producing the lacrimation and respiratory discharge described dramatically by several of the officers. On a more likely than not basis this pepper spray reaction produced significant airway obstruction. This made the eventual mechanical restriction to breathing even more damaging.
- 3. Despite comments that only one, perhaps two glancing head blows from the police baton occurred, the autopsy proved otherwise. While the observed amount of intracranial bleeding was not the direct cause of Mr. Harvey's death it led to a significant portion of the acute brain swelling, edema and dysfunction. It was interesting to note how often the involved EMS and ED personnel, and care-givers after admission mentioned "head blows" or "head trauma" as the major cause of the cardiac arrest.
- 4. Given the circumstances noted above (points 1-3) Mr. Harvey was going to be particularly vulnerable to the moment in time when the force of the officers pushing down on his chest was greater than the force of his efforts to breath (his inspiratory effort). This was a classic example of a phenomenon with a variety of labels: positional asphyxia, restraint asphyxia, mechanical asphyxia, respiratory asphyxia, compressive respiratory insufficiency. The pathophysiology is simple to understand.
 - Humans inhale, or "take a breath", via the coordinated contractions of the intercostal
 muscles, the thoracic wall muscles, the diaphragm, and the shoulder girdle muscle. A
 breath in (inspiration) requires that these muscles expand the volume of the chest,
 producing a partial vacuum, with subsequent air flow in.
 - If significant resistance to this chest expansion occurs, an insufficient amount of air will stream into the lungs. The blood that is pumped through the lungs will not become adequately oxygenated, and a state of hypoxia, or low oxygen, will ensue. With complete lack of oxygen a state of anoxia is present.
 - If the restriction to chest expansion continues, and the state of hypoxia lengthens, problems begin. The heart continues to beat, but it is pumping poorly oxygenated blood. As noted below the brain is exquisitely sensitive to reduced oxygen and it shuts off (unconsciousness), in a state of reversible brain damage.

- Though less than the brain, the heart is also sensitive to low or absent oxygen. Animal studies of asphyxiation show that the unoxygenated heart goes through a sequence of marked elevation of blood pressure and heart rate. This is followed shortly by a steady slowing of the heart rate over several minutes. The heart then stops completely in what is called asystole. Asystole was the heart condition Mr. Harvey displayed when the medics were first able to monitor his cardiac rhythm.
- Researchers have identified and reported many causes of that initial resistance to chest expansion (and subsequent death). in nursing home patients, these include entanglement in bed clothing and sheets, or falling under side rails, "blowing a faint" in the teenage search for new highs; burial under sand, snow or dirt; tipping over soft drink dispensers; attempting sex with an obese partner on top; auto-erotic techniques gone awry; and a rich variety of additional causes.
- Of relevance to Mr. Harvey's demise is the large number of deaths associated with the "hog-tie" method of restraint of criminal suspects (ankles bound; wrists bound behind back; subject lying facedown; ankles bound to wrists). So many deaths have occurred by this restraint method that almost all law enforcement agencies prohibit its use. Though Mr. Harvey was not restrained in the full "hog-tie" approach, much of the pathophysiology of that method applies.
- Any face-down (prone) restraint position leads to a reduced amount of chest expansion when compared to the normal upright position. This occurs because the subject has to lift the weight of his or her own upper body with each breath. If you add weight progressively to the back of someone in the face-down position, there will follow a progressive decrease in the amount of chest expansion. This same reduction occurs, though to a lesser extent, in the face-up (supine) position. Big, strong individuals can generate significantly forceful chest expansions. Inevitably, however, a subject will become fatigued and then exhausted, and the volume of their chest expansions will rapidly decrease.
- This rate of subject fatigue and exhaustion will increase significantly if a large amount of weight, or increasing amounts of weight, are pressed down on the subject's chest.
- Multiple documents confirm that a large amount of weight was added to Mr. Harvey's chest in the person of Officer Clyde Turner. This occurred towards the end of the prolonged and exhausting efforts to restrain and subdue him. Despite Mr. Harvey's display of almost super-human strength, it was only a matter of time before fatigue and exhaustion ("he appears to be tiring") sets in, and he loses his ability to expand his chest against officer Turner's unrelenting weight.
- Compounding the effects of the mechanical chest restriction by Officer Turner's straddle of Mr. Harvey were Turner's efforts to avoid being bitten by Mr. Harvey. "I tried to keep his...chin planted in his (Harvey's—ROC) chest, so he couldn't open his mouth to bite me." Such a hold would unquestionably produce marked hyperflexion of the neck, and occlusion forces against the mandible. This maneuver would have led to further airway obstruction. Hyperflexion of the neck is a frequent element in many reports of restriction or positional asphyxia.
- 5. The interval between the start of Mr. Harvey's cardiac arrest (7:34 to 7:36 pm) and the start of CPR by the EMS personnel at 7:40 pm, was 4 to 6 minutes. This was an interval of total absence of blood supply to the brain. In brain resuscitation literature, this is referred to as

- "the period of global no-flow". This is a period of maximum rate of brain damage. Given the metabolic circumstances noted in point 1 above, one could estimate that the rate of brain damage would have been several magnitudes greater.
- 6. The interval between the start of CPR at 7:40 pm, and the restoration of spontaneous circulation at 7:51 pm, was 11 minutes. From the standpoint of irreversible brain damage this is an eternity. Even though the chest compressions of CPR produce some blood flow to the brain it is extremely limited flow, perhaps only 10 to 15% of normal. The transition from reversible to irreversible brain damage is occurring throughout this "CPR interval". In addition, most of the limited blood that circulates during CPR is unoxygenated. The ventilations that occur during CPR, even though supplemented by oxygen from the EMS units, do little in the way of adding oxygen to the blood. These ventilations only become significantly effective when delivered through an endotracheal tube. Since intubation did not occur until 7:48 pm, fully 8 minutes of the 11 minutes of CPR was a period of poor oxygenation. The effect was to increase the amount of irreversible brain damage.
- 7. Even though the EMS personnel managed to "restart the heart" some 16-18 minutes after the cardiac arrest, they did not manage to "restart the brain." This phenomenon—that it is easier to restart the heart than to restart the brain—is well-known in emergency medical and resuscitation research. The brain is exquisitely sensitive to any interruption in the flow of oxygenated blood. Witness how in just a few seconds someone becomes unconscious ("faints") when their blood pressure drops or their heart rate slows. This lapse into unconsciousness is, in a sense, a form of acute, reversible brain dysfunction.
- 8. A significant amount of Mr. Harvey's brain was irreversibly damaged (ie dead) by the time he arrived in the emergency department. Witness the almost continuous state of seizures (status epilepticus) that started soon after his arrival, and the fact that he never regained spontaneous respirations. Note that even within a few hours of admission (5am on Nov 12) the organ procurement team (Life Center Northwest) had been notified, and was at his bedside, to evaluate Mr. Harvey as an organ donor. The massive amount of brain swelling and herniation noted at autopsy was simply a inevitable sequelae of the original brain death. This is yet more evidence of the devastating effects of initial restriction of breathing and subsequent cardiac arrest.

CONCLUSION

In my opinion, the actions taken by the Everett Police Department comprise an excessive use of force. The actions of multiple pepper spray deployments; repeated, prolonged and unsuccessful attempts to subdue and restrain Mr. Harvey, combined with repeated traumatic blows to his body and head, weakened and exhausted Mr. Harvey. The final deployment of the both supine and prone positions, coupled with the extreme compressive force on Mr. Harvey's chest of an officer's full weight, produced restraint / positional, hypoxic / anoxic cardiac arrest. Delays in recognizing the arrest and in transferring his care to the waiting EMS personnel produced a prolonged 4 minute period of no oxygenated blood to the brain. This was followed by an 11

minute period of markedly reduced flow of unoxygenated blood to the brain. This led directly, in a causal chain, to severe, irreversible, anoxic encephalopathy and subsequent death.

Respectfully submitted,

Richard O. Cummins, MD, MPH, MSc

Specialty Certification by the American Board of Internal Medicine and the American Board of Emergency Medicine

Jacobs, Cheryl

From:

McLean, Josephine

Sent:

Tuesday, May 02, 2006 5:18 PM

To:

Jacobs, Cheryi

Subject: Wekema deps

C.J.

When you get a chance, perhaps you can help me locate David Coons, last known address - 3917 Corliss Ave. N.

Thanks

jm

Josephine McLean CARNEY BADLEY SPELLMAN, P.S. 701 Fifth Avenue, Suite 3600 Seattle, WA 98104-7010 Direct: 206 607-4151 Phone: 206 622-8020

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University of Washington Medical Center

EMERGENCY MEDICINE SERVICE

BIOGRAPHY and CURRICULUM VITAE

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Richard O. Cummins, MD, MPH, MSc Professor of Medicine University of Washington Medical Center and School of Medicine

Biographic Sketch

Richard O. Cummins, MD, MPH, MSc

Professor of Medicine University of Washington

Richard O. Cummins grew up in eastern North Carolina. He attended the University of North Carolina in Chapel Hill, as a John Motley Morehead Scholar. He attended medical school at Case Western Reserve in Cleveland; and received post-graduate training in Medicine and Pediatrics at the University of Virginia in Charlottesville.

For two years he served in the U.S. Public Health Service in a medically indigent community in rural Virginia.

He was awarded a Robert Wood Johnson Fellowship to the University of Washington School of Public Health where he obtained graduate training in Epidemiology, and a Master's in Public Health Degree. He was awarded a Milbank Memorial Fund Fellowship to study for two years at the University of London in England (obtaining a Master's of Science degree); and at the Royal Free Hospital.

He joined the faculty of the Department of Medicine at the University of Washington in 1981, and was promoted to the rank of full Professor in 1993. As a member of the Division of Emergency Medicine he works as an attending physician in the UWMC Emergency Department, providing clinical care, supervising medical students and residents in training, as well as providing direct patient care.

Dr. Cummins is Board-certified in Internal Medicine and Emergency Medicine.

He has served as the co-director of the Center for Evaluation of Emergency Medical Services, and as the Medical Director of the Early Defibrillation Programs in the Seattle-King County EMS Division.

Dr. Cummins' research themes have been in epidemiology and treatment of sudden cardiac death including long-term survival, resuscitation, defibrillation, transcutaneous pacing, and the pharmacology of resuscitation. He has written and published more than 150 articles and book chapters on emergency cardiac care and related topics.

Dr. Cummins has served as the Chair of the National ACLS Subcommittee; the National ECC Committee; and co-chair of the International Liaison Committee on Resuscitation (ILCOR). He has also served as a Senior Science Editor within the AHA's ECC programs. In this position Dr. Cummins has helped develop ACLS guidelines, instructor manuals, provider manuals, handbooks, and textbooks. He has been the Editor for 3 editions of the ACLS Textbook; 2 editions of the ACLS Instructors Manual; and 6 editions of the ECC Handbook. He originated the ACLS for Experienced Providers Course and wrote the Instructors Manual and Toolkit.

He lives in Seattle, WA with his wife Jenny with whom he has observed, but not influenced, the growth and development of daughters Caroline and Elisabeth, son David, and black lab "Beau". Only one of these five individuals has ever paid the slightest attention to him (the one with the tennis ball in his mouth).□

Professional Biography Richard O. Cummins, MD, MPH, MSc

EDUCATION

Richard O. Cummins, MD grew up in eastern North Carolina. In high school he was awarded the John Motley Morehead Scholarship to attend the University of North Carolina in Chapel Hill from which he graduated Phi Beta Kappa in 1968. He attended medical school at Case Western Reserve University Medical School in Cleveland, Ohio (1968-72); graduating with Alpha Omega Alpha honors in 1972. Post-graduate, residency training in Medicine and Pediatrics took place at the University of Virginia in Charlottesville (1972-73; 75-77). For two years he served in the U. S. Public Health Service in a medically indigent community in rural Virginia (1973-5). He was awarded a Robert Wood Johnson Fellowship to the University of Washington School of Public Health where he obtained graduate training in Epidemiology (obtaining a Master's in Public Health Degree; 1977-79)). He then competed for and was awarded one of five national Milbank Memorial Fund Fellowships to study at the University of London in England (obtaining a Master's of Science degree; 1979-81).

ACADEMIC APPOINTMENTS

He joined the faculty as an Instructor in the Department of Medicine at the University of Washington in 1981. By 1993 he rose to the rank of full Professor in the Department of Medicine. He is a member of the Division of Emergency Medicine at UWMC, and a member of the faculty of the Madigan Army Medical Center-University of Washington Affiliated Emergency Medicine Residency Program. He now works half-time clinically as an Emergency Medicine physician, in the UWMC Emergency Department, providing clinical care, supervising medical students and residents in training, as well as providing direct patient care himself.

BOARD CERTIFICATION

Dr. Cummins is Board-certified in the specialties of Internal Medicine (1977) and Emergency Medicine. (1996)

RESEARCH ACTIVITIES AND THEMES

He is the co-director of a research-focused collaboration between the University of Washington and the Seattle-King County Public Health Department, called the Center for Evaluation of Emergency Medical Services. As a community service Dr. Cummins serves as the Medical Director of the Early Defibrillation Programs in the Seattle-King County EMS Division. Dr. Cummins' research themes have been multiple: the epidemiology and treatment of sudden cardiac death; long-term survival and quality of life; techniques of initial resuscitation, early defibrillation, transcutaneous pacing, and the pharmacology of resuscitation. He was one of the first researchers in the United States to evaluate the new technology of automated external defibrillation starting in the early 1980's. He has consistently been a proponent of AEDs as the key link in a community's chain of survival. He has written and published more than 130 articles and book chapters on emergency cardiac care and related topics.

NATIONAL AND INTERNATIONAL LEADERSHIP

Dr. Cummins has risen to national and international prominence through volunteer work with the American Heart Association. He has played a number of leadership roles with the National AHA,

including the following: Chairman, National ACLS Subcommittee; Vice-Chair, National ECC Committee; Chair, National ECC Committee; founder and co-chair of the International Liaison Committee on Resuscitation (ILCOR). In these positions, Dr. Cummins has served as the lead Editor of the 1992, 1997 and 2003 Editions of the Textbook of ACLS, and for 5 editions of the Handbook of ECC and CPR. Under his editorship there have been more copies of the Textbook of ACLS distributed to readers than any other medical textbook in the World. As the co-leader of ILCOR, Dr. Cummins initiated the development of a series of "Utstein Style" guidelines on out-of-hospital, pediatric, and in-hospital resuscitation, resulting in more than 12 publications.

AMERICAN HEART ASSOCIATION: SENIOR SCIENCE EDITOR

(December, 1977 to July, 2002)

From December, 1997 to July, 2002, Dr. Cummins served as Senior Science Co-Editor of the AHA's ECC programs (with Mary Fran Hazinski, RN as Senior Science co-editor). He received funding from the AHA to support a 50% commitment to this work. In this position Dr. Cummins had overall responsibility for the development of all of the AHA's scientific publications on CPR and ECC. On August 22, 2000 the 2000 Guidelines on CPR and ECC was published as an entire issue of CIRCULATION with Dr. Cummins as the senior co-editor. This was followed by these books edited by Dr. Cummins. 2002 ACLS Provider Manual, 2002 ACLS Instructors Manual, 2000 and 2003 Handbooks of ECC and CPR; 2000 ACLS Manual for Experienced Providers, the 2000 ACLS-Experienced Providers Instructor Manual, and, published in May, 2003 the 2-volume 2003 ACLS Textbook: ACLS—the Reference Textbook: volume 1-ACLS Principles and Practice; and volume 2: ACLS for Experienced Providers. He is co-author of ACLS Scenarios: core concepts for Case-based teaching (1996), and coauthor of 1998 Heartsaver-AED Textbook.

HONORS AND AWARDS

In 1994 Dr. Cummins received the National Award of Meritorious Service from the AHA, as well as the Time, Feeling and Focus Award. In 1995 he received the National AHA Volunteer of the Year Award. In September, 2002 he was presented with the Hans Dahll Award from the Citizen CPR Foundation for significant and outstanding contributions to research and education in ECC and CPR. In January, 2005 he was honored at the American Heart Association International Guidelines Conference as a "Giant of Resuscitation", an award given every five years for a career of outstanding contributions to the field of resuscitation. (Citation from Award Ceremony on following page.)

CURRICULUM VITAE: RICHARD O. CUMMINS.

2005 HONOREES

Richard O. Cummins, MD, MPH, MSc

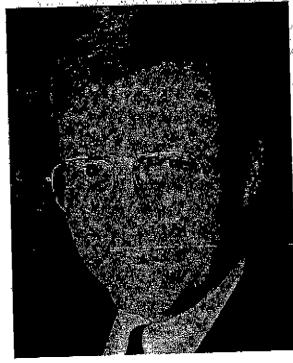
Richard Cummins is a giant in all aspects of resuscitation science, including clinical practice, research, international consensus development, teaching, writing, and odding. He has advocated AHA and international evidence-based research in resuscitation science, creating the framework and templates that we are using today for resuscitation evidence evaluation. For many years he promoted international collaboration to evaluate CPR and ECC science and develop common treatment recommendations. He and Dr Douglas Chamberlain founded the initial International Liaison Committee on Resuscitation (ILCOR), and they co-chained this organization for 10 years. These efforts culminated in the publication of the international Guidelines 2000 for CPR and ECC, which he co-edited.

Dr Cummins has had a profound effect on the way we treat suffice cardiac arrest. He first defined the "Chain of Survival," Many of his more than 130 peer-reviewed publications are cited throughout the International Resuscitation Guittelines. He identified the need for uniform reporting guidelines for outcomes of CPR. He helped organize the first Utstein conference to define guidelines for actual out-of-hospital arrest and edited the pediatric Utstein guidelines, the Utstein guidelines for reporting in-hospital arrest, and the educational Utstein guidelines. He was an early advocate of prehospital AED use by trained rescuers. Dr Cummins proposed many of the AHA recommendations to promote AED CPR programs. He drafted the final version of the faderal Cardiac Arrest Survival Act that was ultimately signed into law, and helped write the recommendations used in many state AED regulations and legislation.

Dr Cummins has been instrumental in the development of ECC, especially ACLS teaching materials. In the early 1990s he created the flist ECC Handbook and transformed the ACLS course to case-based instruction. The 1994 ACLS Textbook, which he edited, became the largest selling English language medical textbook. He originated the college ACLS for Experienced Providers and edited the ACLS Provider Manual and the ACLS Metabook Dr Commins is an unselfish mentor who nurtures colleagues and gives them established from provides the a superb editor and a wonderful role model and colleague. During tight deadlines he offen provides the encouraging message or humorous card that buoys team spirit. He is a compassionate and skilled charcian. It is no surprise that he has won awards as a clinical instructor at the University of Washington. He has taught

"I learned from the giants who came before me. During my residency at the University of Virginia, I spent time as the 'ambulance doctor' going out on EMS calls. This system had been inspired by one of the first 'Giants of Resuscitation', Dr Frank Pantridge. Dr Mickey Eisenberg, another ECC giant, offered me a chance to work with him on a project to evaluate something called an automated external defibrillator. Then yet another giant, Sir Douglas Chamberlain, helped me find an airline in Great Britain on which we established the world's first airline defibrillation program."

many of us more than we can say.



CURRICULUM VITAE: RICHARD O. CUMMINS.

ORIGINAL CONTRIBUTIONS

Dr. Cummins, along with a number of fellow experts for each topic, has been given credit for making unique and original contributions to the field of resuscitation. Perhaps more accurately he has frequently added to others' original ideas by a more concise and defined conceptualization, and by articulating in publications extensions of the original ideas. This applies to the following concepts and principles:

- the principle of early defibrillation by first responding healthcare providers,
- adding to documentation of the value of early CPR and early defibrillation,
- original formulation of the Chain of Survival Concept,
- articulating the principle of public access defibrillation,
- adding to documentation of the accuracy and effectiveness of automated external defibrillators,
- adding to documentation of the reality of sudden cardiac death during commercial air travel and generation of the idea of using AEDs for in-flight cardiac arrest;
- documentation of the ineffectiveness of transcutaneous pacing for asystole
- documentation of the ineffectiveness of high-dose epinephrine in out-of-hospital arrest
- implementation of international uniform recommendations for reporting cardiac arrests (the "Utstein Guidelines")
- recognition that there were too many causes of cardiac emergencies that went unrecognized and untreated, because of the lack of AHA guidelines (leading to the ACLS for Experienced Provider course; and new editions of the ECC Handbook)
- implementation of the "5-Quadrads" approach to ACLS education by creating the ACLS for Experienced Providers Course
- bringing a more formal epidemiological and evidence-based approach to the development of CPR and ECC Guidelines
- fostering the principles of "zero-risk therapeutics" in ECC and CPR guidelines
- initiating and leading a new "scientific outreach effort" to make guideline development an "international consensus on Science"
- installing the principles of evidence-based medicine into the daily work of guideline development and consensus

CURRICULUM VITAE

Richard Oliver Cummins, M.D., M.P.H., M.Sc.

PERSONAL

El Dorado, Arkansas. Birthplace:

Marital Status: Married; Jenny; 26th anniversary, August 24, 1994.

· Three Children: Caroline, 22; Elisabeth, 20; David, 15

EDUCATION

University of North Carolina, Chapel Hill, North Carolina, A.B., 1964-1968.

Case Western Reserve University School of Medicine, Cleveland, Ohio, M.D., 1968-1972.

- · University of Washington, Seattle, Washington, School of Public Health and Community Medicine, M.P.H. in Health Services Research, 1977-1979. (Robert Wood Johnson Clinical Scholar).
- London School of Hygiene and Tropical Medicine, London, England, M.Sc. in Epidemiology, 1979-1981 (Milbank Memorial Fund Scholar).

POSTGRADUATE TRAINING

- University of Virginia Internship, Medicine and Pediatrics, 1972-1973.
- National Health Service Corps; General Practice, Louisa, Virginia, 1973-1975.
- · University of Virginia Hospital; Department of Medicine, Charlottesville, Virginia; Internal Medicine Residency, 1975-1977

FACULTY POSITIONS HELD

- · Professor, Department of Medicine, University of Washington; July 1, 1992 to present
- Associate Professor, Department of Medicine, University of Washington, July 1, 1985 to June 30, 1992.
- Assistant Professor, Department of Medicine, University of Washington, 1981-1985.
- · Instructor, Department of Clinical Epidemiology and General Practice, Royal Free Hospital School of Medicine, London, England, 1980-1981).
- Instructor (on leave), Department of Medicine, University of Washington, 1979-1981. Acting Instructor, Department of Medicine, University of Washington, 1977-1979.

HOSPITAL POSITIONS HELD

- National Health Service Corps; Louisa, Virginia, 1973-1975.
- Attending Physician, Primary Care Center; Harborview Medical Center, University of Washington, 1981-1982.
- Attending Physician, Emergency Medicine Service; University Hospital, University of Washington, 1982-present.

HONORS and AWARDS

- John Motley Morehead Scholarship, University of North Carolina, 1964.
- · Phi Beta Kappa, University of North Carolina, 1968
- Alpha Omega Alpha; Case Western Reserve University, 1972.
- James Kindred Teaching Award, University of Virginia, 1977.
- · Robert Wood Johnson Clinical Scholar, University of Washington
- Milbank Memorial Fund Scholar, University of Washington, 1979.
- American Heart Association, Distinguished Service Award, Washington State ACLS Affiliate Faculty, Oct, 1990.
- American Heart Association, Distinguished National Service Award, (ACLS National Chair); May 17, 1994
- American Heart Association, Volunteer of the Year Award, Washington State AHA Affiliate, July, 21, 1994
- American Heart Association, "Time, Feeling and Focus Award" National Volunteer Award, November 18, 1994
- · American Heart Association: "National Award of Meritorious Achievement." (one of four given Nationally);
- · Citizen CPR Foundation: National Hans Dahll Award for Outstanding Contributions to the Field of ECC and June 21, 1995
- Emergency Medicine Faculty: Clinical Teacher of the Year Award-2004. Selected by the graduating residents in Emergency Medicine; University of Washington/Madigan Army Medical Center Emergency Medicine Residency Program

BOARD CERTIFICATION

- Diplomate of the American Board of Emergency Medicine; July 15, 1996 (#930960)
- Diplomate of the American Board of Internal Medicine, June, 1977 (#60678)

LICENSURE

- Current: State of Washington, 1977; Number 252-09.
- Not renewed: State of Virginia, 1973; Number 023835.
- Not renewed: United Kingdom, 1980

PROFESSIONAL ORGANIZATIONS

- Society for Academic Emergency Medicine
- National Association Emergency Medical Services Physicians
- American College of Emergency Physicians
- · American Board of Internal Medicine (inactive).
- American College of Physicians (inactive).
- · American Heart Association
- American Medical Association (inactive).
- American Public Health Association (inactive)
- Society for Medical Decision Making (inactive)

EDITORIAL RESPONSIBILITIES

- Associate Editor, <u>Currents in Emergency Cardiac Care</u>, American Heart Association, Dallas, TX; 1988-1999
- · Associate Editor, Journal of General Internal Medicine; 1994-99
- Editorial Board, <u>American Journal of Emergency Medicine</u>; 1986-92
- Editorial Board, Prehospital and Disaster Medicine; 1986-90
- Editorial Board, Annals of Emergency Medicine; 1988-1993
- Advisory Panel, <u>Journal American Medical Association</u> (Section on Concepts in Emergency and Critical Care); 1985-90
- Advisory Panel, Journal American Medical Association (Panel on Diagnostic & Therapeutic Technology Assessment); 1985-90

JOURNAL PEER-REVIEW SERVICE (most inactive as of 2004)

- American Heart Journal
- American Journal of Emergency Medicine
- Annals of Emergency Medicine
- Canadian Medical Association Journal
- Chest
- Circulation
- Journal of the American Medical Association
- Journal of Chronic Diseases
- Journal of Emergency Medical Services
- Journal of Prehospital and Disaster Medicine
- Journal of General Internal Medicine
- New England Journal of Medicine
- Medical Decision-Making
- Resuscitation
- · European Journal of Emergency Medicine
- Academic Emergency Medicine

SPECIAL NATIONAL AND INTERNATIONAL RESPONSIBILITES

- Senior Science Editor; American Heart Association; Emergency Cardiovascular Care; Appointment: Dec, 1997
- Chairman, National Emergency Cardiac Care Committee; American Heart Association (Term runs 1996 to 1999)
- Member, American Heart Association National Oversite Committee, Task Force on Five-Year Business Plan
- Member, (1994-present) American Heart Association National Task Force on "Safety and Efficacy of Automated External Defibrillators"
- Vice-chairman, National Emergency Cardiac Care Committee; American Heart Association; Dallas, Texas (1995-
- · Chairman, (1991-94) National Advanced Cardiac Life Support Subcommittee, American Heart Association.

- Liaison, (1992) American Heart Association to the European Resuscitation Council
- Co-Chairman (1992) International Liaison Committee on Resuscitation Guidelines in Emergency Cardiac Care (American Heart Association, European Resuscitation Council, Australian Resuscitation Council, Resuscitation Councila of Southern Africa)
- StateCo-chairman (1992-93) Washington State American Heart Association, ECC Committee
- Planning Committee. American Heart Association National Fact-finding exercise. Dallas, Texas; Sept 26-30,
- Planning Committee. American Heart Association National Guidelines Conference. Dallas, Texas; February 22-26, 1992.
- Co-Chairperson, Emergency Cardiac Care '92 Update Conference; Seattle, Washington, April 9-11, 192.
- Member, National Advanced Cardiac Life Support Subcommittee, American Heart Association (1987-present)
- Member, National Emergency Cardiac Care Committee, American Heart Association
- Member, Board of Directors, Citizen's CPR Foundation.
- Co-Chairperson, Emergency Cardiac Care Update National Conference; Seattle, Washington, 1992.
- · Co-Chairman, Utstein-II Conference on Recommended Guidelines for Uniform Reporting of Cardiac Arrest Outcome Data, December 9-11, 1991; Bagshot, Surrey, England.
- · Chairman, Task Force on Automated Defibrillation Training and Education, Advanced Cardiac Life Support Subcommittee, American Heart Association
- Member, Conference Planning Committee, 1992 National Conference on Guidelines for Emergency Cardiac Care and Cardiopulmonary Resuscitation, American Heart Association; Dallas, Texas.
- · Chair, Committee on Emergency Medical Services Systems, 1992 National Conference on Guidelines for Emergency Cardiac Care and Cardiopulmonary Resuscitation, American Heart Association;
- · Member, American Heart Association Council on Cardio-Pulmonary and Critical Care Medicine
- · Scientific Advisor, First Vienna Congress on Sudden Cardiac Death, March 24-26, 1993
 - · Symposium Organizer, "Chain of Survival in Europe and America; First Vienna Congress on Sudden Cardiac Death; March 24, 1993
 - Scientific Advisor, 6th World Congress on Disaster and Emergency Medicine; Hong Kong; 1989.
 - Scientific Advisor, 7th World Congress on Disaster and Emergency Medicine; Montreal, 1991
 - Symposium Organizer, Cardiology Session, 6th World Congress on Disaster and Emergency Medicine;
 - · Symposium Organizer, Cardiology Session, 7th World Congress on Disaster and Emergency Medicine; Montreal,
 - Member, National Program Committee, Society for Academic Emergency Medicine; 1989 Annual Meeting; 1990 Annual Meeting.
 - Member, Defibrillation Standards Committee, American Association for Medical Instrumentation.
 - Member, Subcommittee on Standards for Automated External Defibrillators, American Association for Medical Instrumentation.
 - Moderator, Scientific Papers Session, Society for Academic Emergency Medicine, 1989 Annual Meeting, 1990 Annual Meeting.
 - · Member, Center Devices and Radiologic Health National Committee on Defibrillator Use Problems (Chair, Subcommittee on Manuscript/Report Preparation).

SPECIAL WASHINGTON STATE RESPONSIBILITIES

- State AHA ECC Committee member 1994- present
- EMS Task Force on EMS-No CPR Protocols 1992-1995
- State AHA ECC Committee Co-Chairman 1994 to 1995
- State AHA ACLS Committee Member
- Member, State AHA Board of Trustees
- Member, State AHA Research Committee

UNIVERSITY, DEPARTMENTAL AND MEDICAL CENTER RESPONSIBILITIES:

- Acting Director, UWMC Affiliated Residency Program in Emergency Medicine, University of Washington and Madigan Army Medical Center (
- Associate Director, Emergency Medical Services; University of Washington Medical Center.
- Senator, Department of Medicine to the Faculty Senate of the University of Washington (1989-1992)
- Member, University of Washington Medical Center, Quality Assurance Committee.
- · Chairman, University of Washington Medical Center, Quality Assurance Committee. (1991-present)
- Member, Standing Committee: Introduction to Scientific Method in Science, School of Medicine.

- · Member, Advisory Committee: Epidemiology Course for Medical Students
- · Member, Medical Thesis Committee, School of Medicine.
- · Member, Patient Care Information Subcommittee, Medical Care Information Systems Project, University of Washington Medical Center.
- Member, Quality Planning Council, University of Washington Medical Center
- · Member, Physicians Focus Group on Quality Improvement, UWMC.

MAJOR GRANT APPLICATIONS AND AWARDS:

- Principal Investigator: "The early use of transcutaneous pacing by emergency Medical technicians." Grant #HSO-5740-02 from the National Center for Health Services Research, Washington, D.C.
- Principal Investigator: "A controlled clinical trial of automated external defibrillators by Emergency Medical Technicians". Grant #HSO-5174 from the National Center for Health Services Research, Washington, D.C. 2.
- Co-Principal Investigator: "The use of automatic defibrillators by the companions and family members of high risk cardiac patients." Grant #HSO-4894, from the National Center for Health Services Research, 3. Washington, DC.
- Co-Principal Investigator: "The development of a Center for the Evaluation of Emergency Medical Services", series of grants from the Asmund S. Laerdal Foundation (one for 3 years, and one for 5 years.) 4.
- Co-Principal Investigator: "Evaluation of a semi-automatic external defibrillators used by community responders, and family member of high risk patients". Grant from the Physio-Control Corporation, Redmond, 5. Washington.
- Co-principal Investigator: "Evaluation of a solid state medical control module in a semi-automated external 6. defibrillator". Grant from the Asmund S. Laerdal Foundation, Stavanger, Norway
- Lacrdal Traveling Scholar Fellowship: awarded 1991 from the Lacrdal Foundation for Acute Medicine. 7. Support for Comparative evaluation of Emergency Medical Services in Europe.
- Principal investigator: "The use of automated external defibrillators for the treatment of in-hospital cardiac 8. arrest " Grant support from the Physio-Control Corporation.
- Principal Investigator: "The ORCA Project: Outcome Research in Cardiac Arrest." A multicenter, multidisciplinary project submitted to the Agency of Health Care and Policy Research. (Submitted June 1, 9. 1991 for funding to begin April 1992). (Approved, Not funded) Resubmitted June 1, 1992 (Approved Not funded)
- Principal Investigator: "A population-based registry of survivors of out-of-hospital cardiac arrest: interventions, quality of life and long-term survival" National Center, American Heart Association; 10. Submitted July 1, 1992 for funding to begin July, 1993 [Not funded]
- Co-Principal investigator: "Women and Sudden Cardiac Death: epidemiology and survival". National Heart Lung and Blood Institute. Submitted December, 1992 for funding to begin July 1, 1993. [Not funded] 11.
- Principal investigator: "The Quality of Survival following Out-of-Hospital Cardiac Arrest." Seattle Medic 12. One Foundation. Approved: September 23, 1993 (\$40,000 for two years).
- Principal investigator: "Survival from Out-of-Hospital cardiac arrest: relationship between interventions and activity level and neuropsychological function in survivors." Submitted July 1, 1993 to the National Grant-in-13. Aid program of the American Heart Association. (Approved: May, 1994; \$150,000 over three years)
- Co-Principal investigator: "Amiodarone used in refractory cardiac arrest due to VF in the Prehospital setting." Seattle Medic One Foundation. Approved: October 4, 1993; \$25,000 per year for three years)

 Co-Principal Investigator: Public Access Defibrillation Clinical Trial. National Heart Lung and Blood Institute. 1999-2004.

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- 9. <u>Cummins RO</u>, Cook DG, Hume R, Shaper AG. Tranquilizer use in middle-aged British males: Association with smoking, drinking, and unemployment. J Royal Coll Gen Pract 1982;32:745-752.

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- 11. <u>Cummins RO</u>, Eisenberg MS, Bergner L, Murray JA. The sensitivity, accuracy and effectiveness of an automatic external defibrillator: Report of a field evaluation by Paramedics. Lancet 1984:ii:318-320.
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- (Note; as the product of an international consensus conference this article was reprinted in Annals of Emergency Medicine 1991;20:861-874(August), Resuscitation1991;22:1-26(August). An abridged version appeared in the Br Heart J 1992;67:325-33. Eur J Anaesthesiol 1992;9(May):245-56
- The article has been translated into German: (Notfall Empfehlungen zur einheitlichen Datenerfassung bei Herzstillstand-Teil I Der "Utstein-Style". (Translated by A. Schmidt and W. Dick). Notfallmedizin 1991;17:510-518. This German version was reprinted in Intensivmedizin und Notfallmedizin).
- The article has been translated into French ("Recommendation pour une description uniforme des données concernant l'arret cardiaque extra-hospitalier: le style d'Utstein" (Translated by Carli P, Riou B, Barriot P, Lambert Y). JEUR 1991;4:202-223(European Journal of Emergencies)
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These number more than 50. Available upon need and request. Most eventually appeared as publications in peer-reviewed journals and are accessible through the published article.

Trial Testimony as Expert Witness: 2003-06

by
Richard O. Cummins, MD, MPH, MSc

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Blincoe MW vs. Perina D et al (plaintiff) [Failure to diagnose DKA]	Circuit Court of the City of Charlottesville, in and for the State of Virginia. No. 02-229	Feb, 2004 (defense verdict)
Park, Kelly v. Northwest Hospital and Gabrielle Coulon, MD (plaintiff)	King County, Washington Superior Court. No. 02-208218. Seattle Washington	June, 2004 (defense verdict)
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Cohen, Stuart (deceased) vs. Hilton Hotels Corporation (plaintiff). [Failure to equip & train hotel security staff in 1st aid, CPR and AED use]	Superior Court of California for the County of San Diego, Central District. Case No.: GIC 821664	Feb 28, 2006 (defense verdict)

Richard O. Cummins, MD, MPH, MSc

Specialty board certification in Emergency Medicine and Internal Medicine

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